## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

WILLIAM J. BORLAND ET. AL.

CASE NO.:

EL0509USNA

APPLICATION NO.:

10/718,044

CONFIRMATION NO.:

**GROUP ART UNIT:** 

2841

**EXAMINER:** 

FILED: November 20, 2003

FOR: METHOD OF MAKING INNERLAYER PANELS AND PRINTED WIRING **BOARDS USING X-RAY IDENTIFICATION OF FIDUCIALS** 

## SECOND SUPPLEMENTAL **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with 37 C.F.R. §§1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office the information listed on the enclosed PTO/SB/08A and/or PTO/SB/08B forms. A copy of the information, if required, is also enclosed. Consideration of the information is requested under 37 C.F.R. § 1.56 and this information is submitted in accord with the provisions of §1.97(b): within three months of filing the national application under 37 C.F.R. §1.53(d), or entry into the national stage under 37 C.F.R. §1.491, or before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action on the merits after filing a Request for Continued Examination under 37 C.F.R. §1.114.

If this Information Disclosure Statement is filed under §1.97(b) but the mailing date hereof is after the mailing of a first Office Action on the merits, the PTO is authorized to charge the fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company) in order to complete the requirements for consideration of this Information Disclosure Statement.

Respectfully submitted,

BARBARA C. SIEGELL Attorney for Applicants Registration No.: 30,684

Gardone ( Jugelf

Telephone: (302) 992-4931 Facsimile: (302) 992-5374

PTO/SB/08A (03-03)

Approved for uso through 07/31/2008 OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

of

2

(Use as many sheets as necessary)

| Complete if Known      |                      |  |
|------------------------|----------------------|--|
| Application Number     | 10/718,044           |  |
| Filing Date            | November 20, 2003    |  |
| First Named Inventor   | William J. Borland E |  |
| Art Unit               | 2841                 |  |
| Examiner Name          |                      |  |
| Attorney Docket Number | EL0509USNA           |  |

|                       |              |                 |                         | U.S. PATENT DO                 | CUMENTS   |  |
|-----------------------|--------------|-----------------|-------------------------|--------------------------------|---|--|
| Examiner<br>Initials* | Cite<br>No.1 | Document Number |                         | Publication Date<br>MM-DD-YYYY | Name of Patentiee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant |
| muais                 | IVO.         | Nu              | mber-Kind Code 2(1 kmm) | 1000POD-1111                   | App. cant or cited bodament                         | Figures Appear   |
|                       | Γ            | US-             | 6,237,218 B1            | 05-29-2001                     | Ogawa et al.  |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
| -                     |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |
|                       |              | US-             |                         |                                |   |  |

|                       | FOREIGN PATENT DOCUMENTS |   |                             |                              |   |    |
|-----------------------|--------------------------|---|-----------------------------|------------------------------|---|----|
| Examiner<br>Initials* | Cite<br>No.1             | Foreign Patent Document                       | Publication Date MM-DD-YYYY | Name of Patentee or          | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | Τ° |
|                       | IVO.                     | Country Code 3-Number 4-Kind Code* (if known) |                             | Applicant of Cited Document  |   |    |
|                       |                          | EP 1 265 466 A                                | 12-11-2002                  | Dai Nippon Printing Co. Ltd. |   |    |
|                       |                          | EP 1 307 079 A                                | 05-02-2003                  | Adtec Engineering Co., Ltd.  |   |    |
|                       |                          |   |                             |                              |   |    |
|                       |                          |   |                             |                              |   |    |
| }                     | <u> </u>                 |   |                             |                              |   |    |
|                       | l                        |   |                             |                              |   |    |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Peperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   | Substitute fo | r form 1449B/PTO    |               |      | Complete if Known      |                            |                                       |
|---|---------------|---------------------|---------------|------|------------------------|----------------------------|---------------------------------------|
|   |               |                     |               |      | Application Number     | 10/718044                  |                                       |
|   | INFO          | RMATION [           | DISCLOS       | SURE | Filing Date            | November 20, 2003          |                                       |
|   | STAT          | <b>EMENT BY</b>     | APPLIC        | CANT | First Named Inventor   | William J. Borland Et. Al. | · · · · · · · · · · · · · · · · · · · |
|   |               |                     |               |      | Art Unit               | 2841                       |                                       |
|   |               | (Use as many sheets | as necessary) |      | Examiner Name          |                            |                                       |
| _ | Sheet         | 2                   | of            | 2    | Attorney Docket Number | EL0509USNA                 |                                       |

| NON DATENT LITEDATIDE POCUMENTS |                                 |   |  |  |  |  |  |
|---------------------------------|---------------------------------|---|--|--|--|--|--|
|                                 | NON PATENT LITERATURE DOCUMENTS |   |  |  |  |  |  |
| Examiner<br>Initials*           | Cite<br>No. <sup>1</sup>        | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  |  |  |  |
|                                 |                                 | Patent Abstracts of Japan, Vol. 1998, No. 06, 30 April 1998 (1998-04-30) & JP 10 051143 A (Oki<br>Purintetsudo Circuit KK), 20 February 1998 (1998-02-20), Abstract   |  |  |  |  |  |
|                                 |                                 | Patent Abstracts of Japan, Vol. 2000, No. 02, 29 February 2000 (2000-02-29) & JP 11 330316 A (Nec Tohoku Ltd), 30 November 1999 (1999-11-30), Abstract  |  |  |  |  |  |
|                                 |                                 | Patent Abstracts of Japan, Vol. 2000, No. 22, 9 March 2001 (2001-03-09) & JP 2001 135941 A (Matsushita Electric Works Ltd.), 18 May 2001 (2001-05-18), Abstract   |  |  |  |  |  |
|                                 |                                 | Patent Abstracts of Japan, Vol. 2000, No. 16, 8 May 2001 (2001-05-08) & JP 2001 022099 A (Adtec Engineering Co. Ltd.), 26 January 2001 (2001-01-26), Abstract   |  |  |  |  |  |
|                                 |                                 |   |  |  |  |  |  |
|                                 |                                 |   |  |  |  |  |  |
|                                 |                                 |   |  |  |  |  |  |
| Examiner<br>Signature           |                                 | Date<br>Considered  |  |  |  |  |  |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

| on <u>W</u> | Tarch 7, 2005<br>Date          | m. Kan Rella                              |
|-------------|--------------------------------|---|
|             |                                | Signature                                 |
|             |                                | M. Kay Lilly                              |
|             | Typed or pr                    | rinted name of person signing Certificate |
|             | Registration Number, if applic | cable Telelphone Number                   |

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

10/718,044

EL0509USNA

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT PTO/SB/08A FORM PTO/SB/08B FORM COPIES OF CITED REFERENCES (7) RETURN POSTAL RECEIPT CARD CERTIFICATE OF MAILING